



BETTER BUILDINGS CHALLENGE

更好建筑物挑战

Experiences with the U.S. DOE Better Plants Challenge

美国能源部“更好工厂挑战”项目经验分享

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聂可为

全球能源与可持续发展副总裁

江森自控

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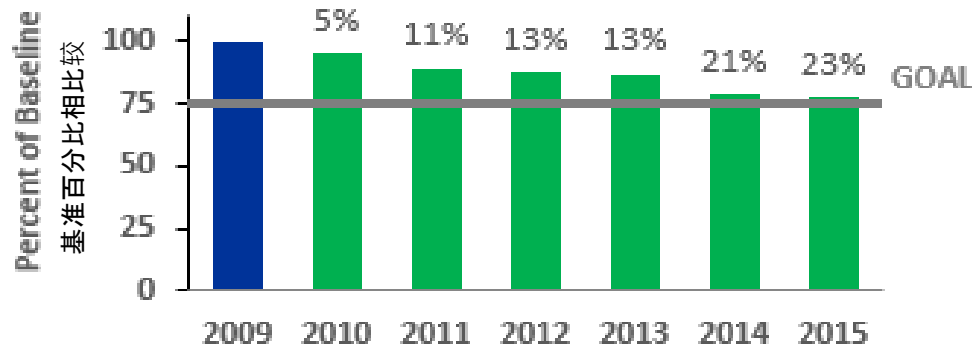
Johnson Controls Better Plants Commitment

江森自控在“更好工厂挑战”项目中的承诺

- 25% Reduction in Energy Intensity by 2019 from a 2009 Baseline
- 以2009年为基准，在2019年减低25%的能源强度
- 79 Facilities (77 Manufacturing Plants)
- 涵盖79个建筑物（其中77为生产工厂）
- 13,962,000 MMBtu per year
- 每年实现13,962,000 MMBtu
- 23% Cumulative Reduction from 2009 Baseline
- 以2009年为基准，实现实现23%的累计能源节省

Cumulative % Improvement as a % of Baseline

累计提升百分比（与基准百分比相比较）



Showcase Project: Compressed Air Efficiency Program

代表项目：压缩空气效率提升项目

Energy Hunt Process


节能途径

- HVAC Systems
- HVAC系统
- Lighting Efficiency
- 照明系统
- Compressed Air Management
- 压缩空气管理
- Energy Cost Management
- 能源成本管理
- Employee Engagement
- 员工管理



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[Home](#) » [Solutions](#) » [Showcase Projects](#) » Compressed Air Efficiency Program



Showcase Project: Compressed Air Efficiency Program

SECTOR TYPE
Industrial

LOCATION
Middletown, Delaware

PROJECT SIZE
275,000 Square Feet

FINANCIAL OVERVIEW
Project Cost \$11,560

Energy Savings:

39%*

Implementation Model: Supplier Efficiency Program

实施模型：供应商节能项目

ORGANIZATION TYPE

Diversified product manufacturer in the building, energy storage and automotive industries

BARRIER

Ability to scale up efforts to help small- and medium-sized (SME) suppliers improve the energy efficiency of their plants

SOLUTION

Development of a standard, scalable program that provides SME suppliers with energy management tools, training and on-site technical assistance

OUTCOME

Energy savings across the supply chain by increasing the number of SME suppliers trained to identify and implement low-cost/no-cost energy efficiency improvements in their plants

Implementation Model: Supplier Efficiency Program

OVERVIEW

Johnson Controls, a global multi-industry company with established core businesses in the automotive and building industries, launched a pilot supplier efficiency program which includes energy management training, visiting the plants of SME suppliers and establishing in-house teams on low-cost/no-cost energy efficiency best practices. Johnson Controls' experts visit supplier sites to lead on-site assessments, share efficiency checklists and tools, and provide guidance on developing business cases for capital improvements. The on-site assessments follow an industry practice known as "energy hunts" which Johnson Controls has used successfully for years to engage facility staff across its plants in identifying and implementing low-cost/no-cost energy savings measures. Energy hunts at supplier facilities have resulted in average savings estimates in the range of 5-10%.

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“

A GREAT PROGRAM!

Drove our costs down without capital expense.

Changed our culture regarding how we look at energy.

Since this program, we have looked at six other energy savings opportunities.”



Mark Brown
Engineering Manager Wolverine Tube



EP 100



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